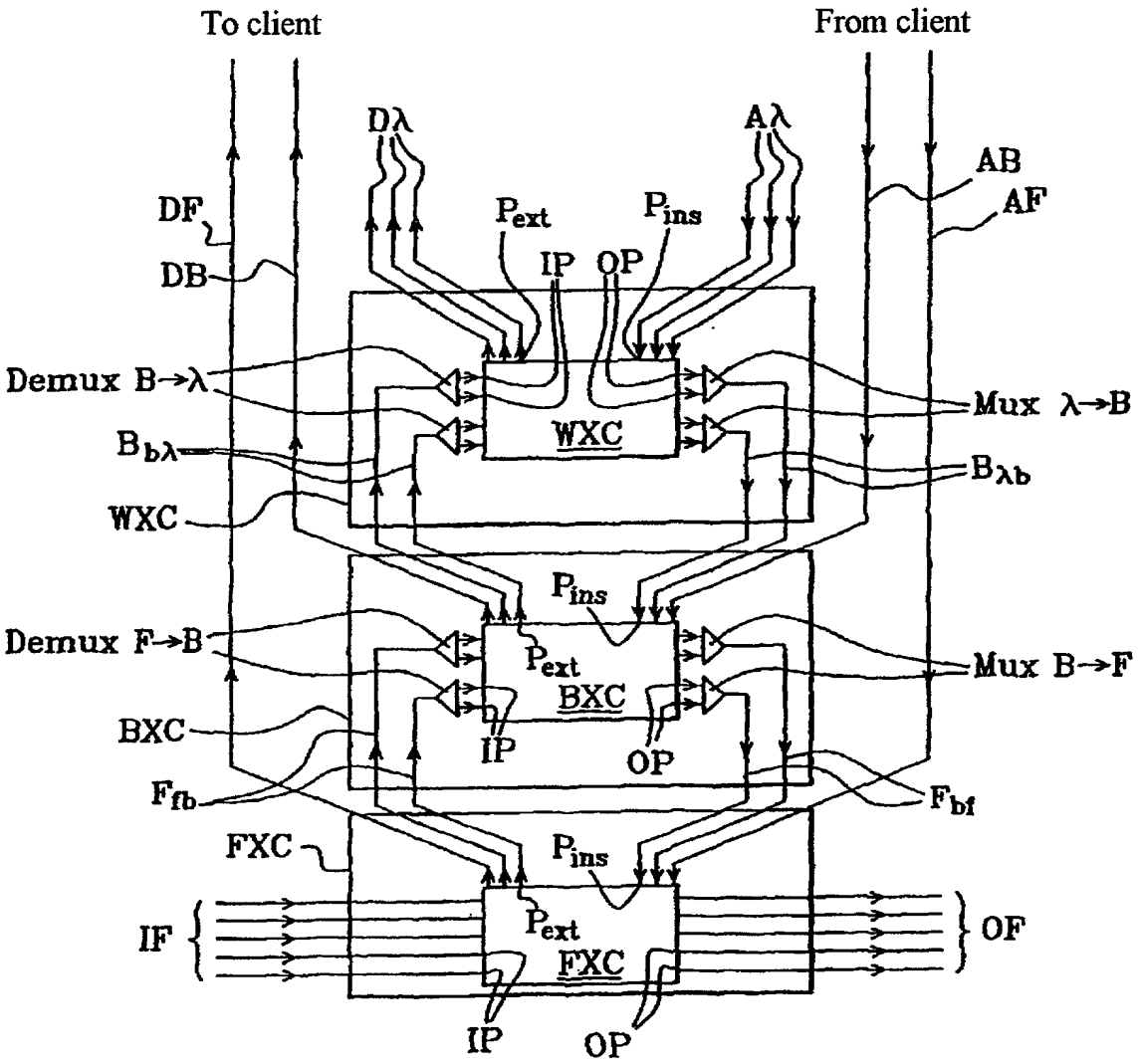
To client
From client
Dλ
Aλ
AB
AF
DF
DB
Pext
Pins
IP
OP
Demux B→λ
Mux λ→B
WXC
Bbλ
Bλb
WXC
Pins
Demux F→B
Mux B→F
Pext
BXC
BXC
IP
OP
Ffb
Fbf
FXC
Pins
IF
Pext
OF
FXC
IP
OP

Fig. 1

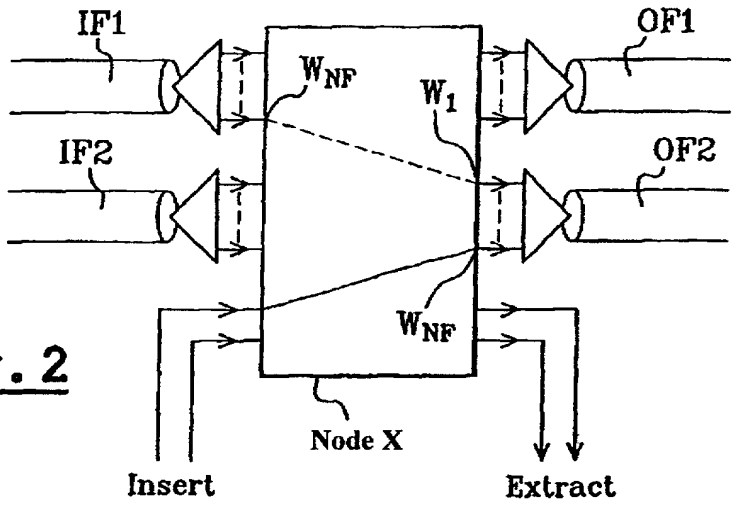

Fig. 2

Wavelength	λ_1	λ_2	λ_3	λ_4	λ_5	λ_6	λ_7	λ_8	λ_9	λ_{10}	λ_{11}	λ_{12}
Band 1 with three wavelengths per band 1	B11			B12			B13			B14		
Band 2 with two bands 1 per band 2	B21						B22					
Fiber	Fiber											

Fig. 3

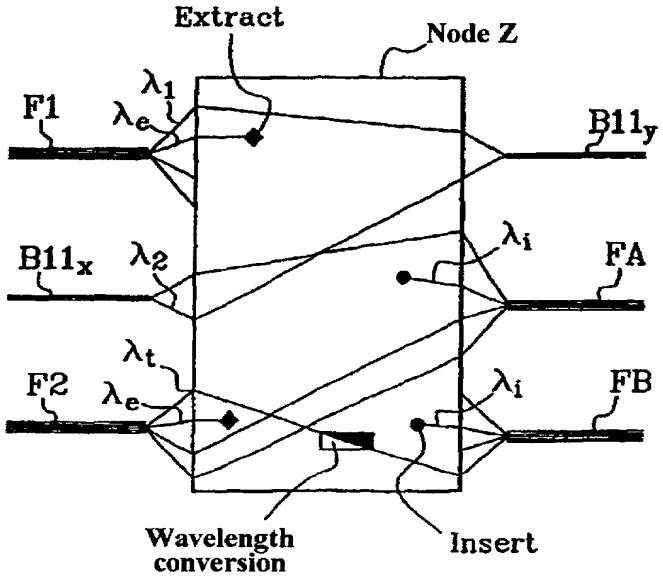

Fig. 4

New U.S. Appln to C. BLAIZOT
"A method of detecting switching subnodes for switching wavelength division multiplexes"
Sept. 27, 2001 Q66282

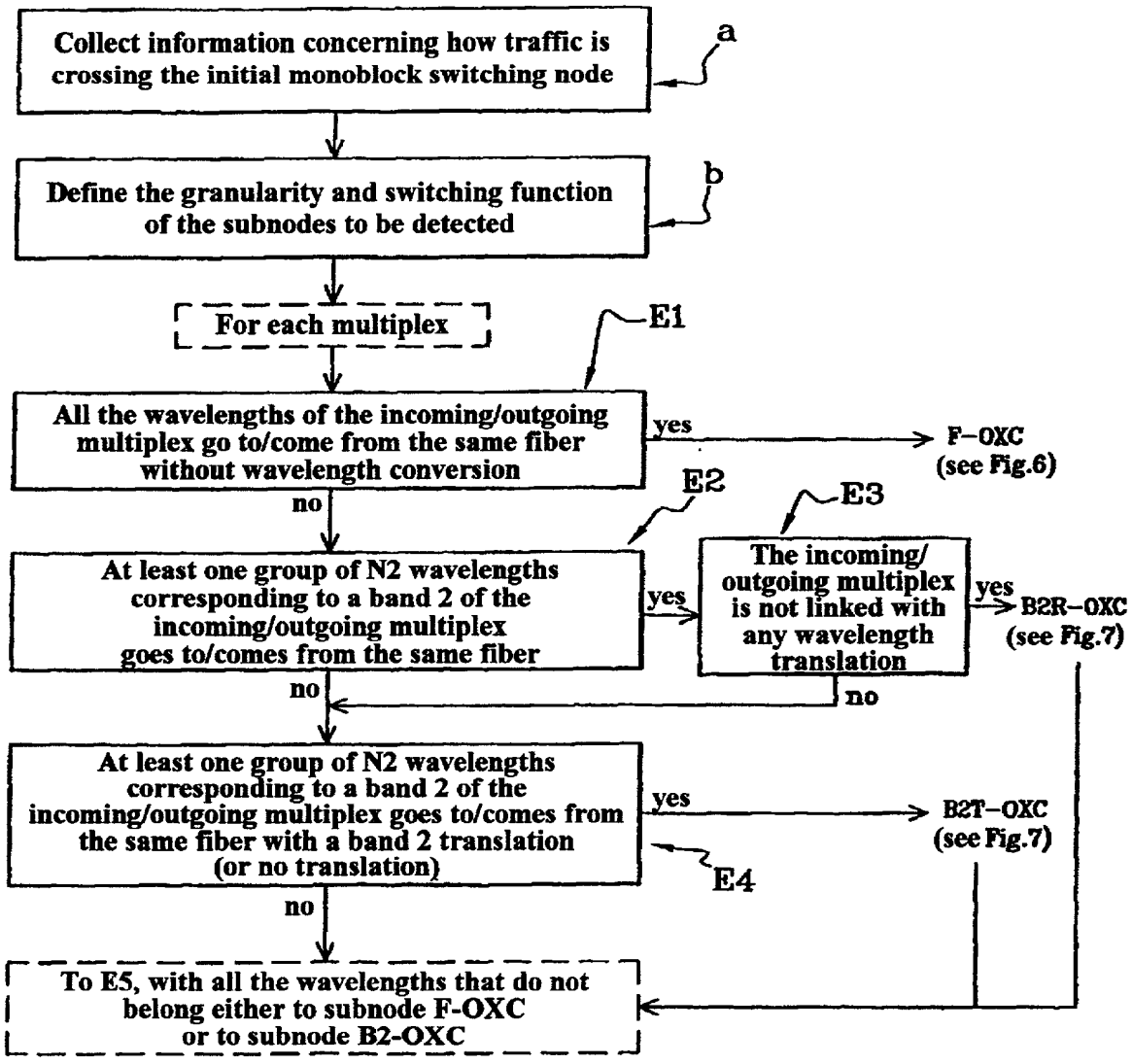

Fig. 5A

0925474 050704

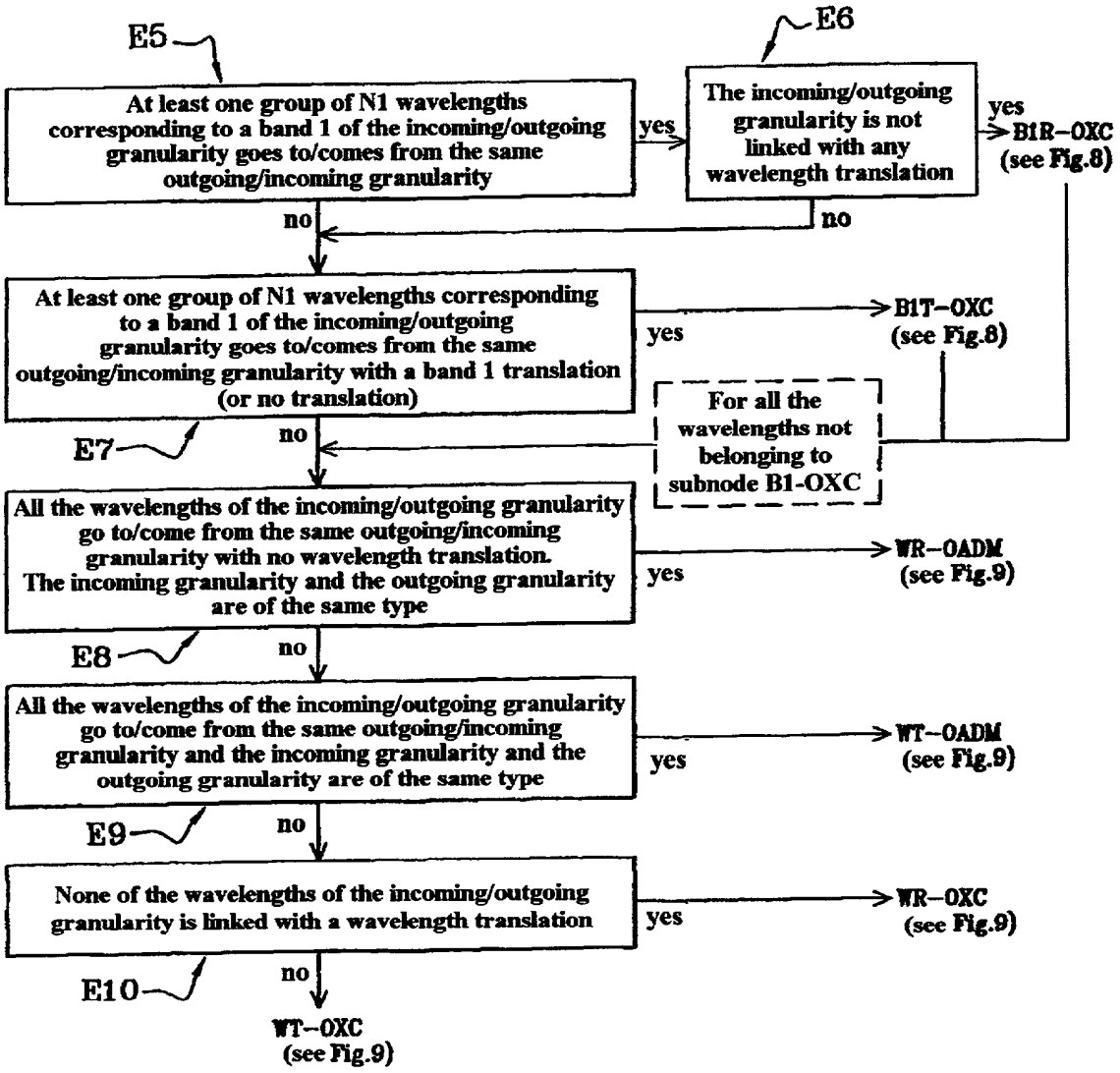
E5
At least one group of N1 wavelengths corresponding to a band 1 of the incoming/outgoing granularity goes to/comes from the same outgoing/incoming granularity
yes
E6
The incoming/outgoing granularity is not linked with any wavelength translation
yes
B1R-OXC (see Fig.8)
no
no
At least one group of N1 wavelengths corresponding to a band 1 of the incoming/outgoing granularity goes to/comes from the same outgoing/incoming granularity with a band 1 translation (or no translation)
yes
B1T-OXC (see Fig.8)
For all the wavelengths not belonging to subnode B1-OXC
E7
no
All the wavelengths of the incoming/outgoing granularity go to/come from the same outgoing/incoming granularity with no wavelength translation. The incoming granularity and the outgoing granularity are of the same type
yes
WR-OADM (see Fig.9)
E8
no
All the wavelengths of the incoming/outgoing granularity go to/come from the same outgoing/incoming granularity and the incoming granularity and the outgoing granularity are of the same type
yes
WT-OADM (see Fig.9)
E9
no
None of the wavelengths of the incoming/outgoing granularity is linked with a wavelength translation
yes
WR-OXC (see Fig.9)
E10
no
WT-OXC (see Fig.9)

Fig. 5B

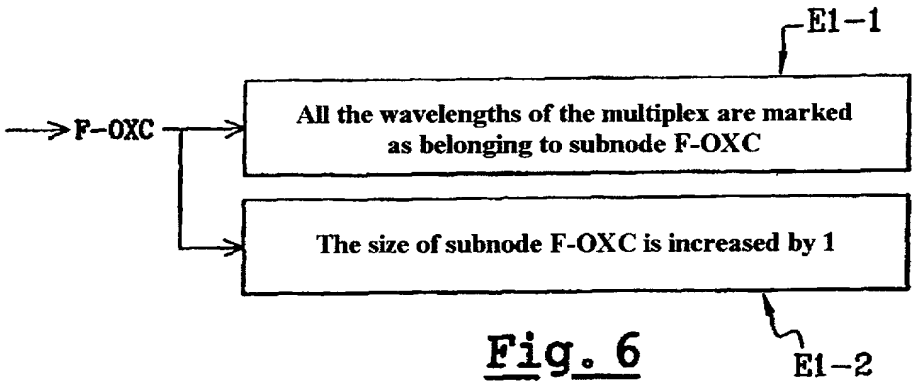
E1-1
F-OXC
All the wavelengths of the multiplex are marked as belonging to subnode F-OXC
The size of subnode F-OXC is increased by 1
E1-2

Fig. 6

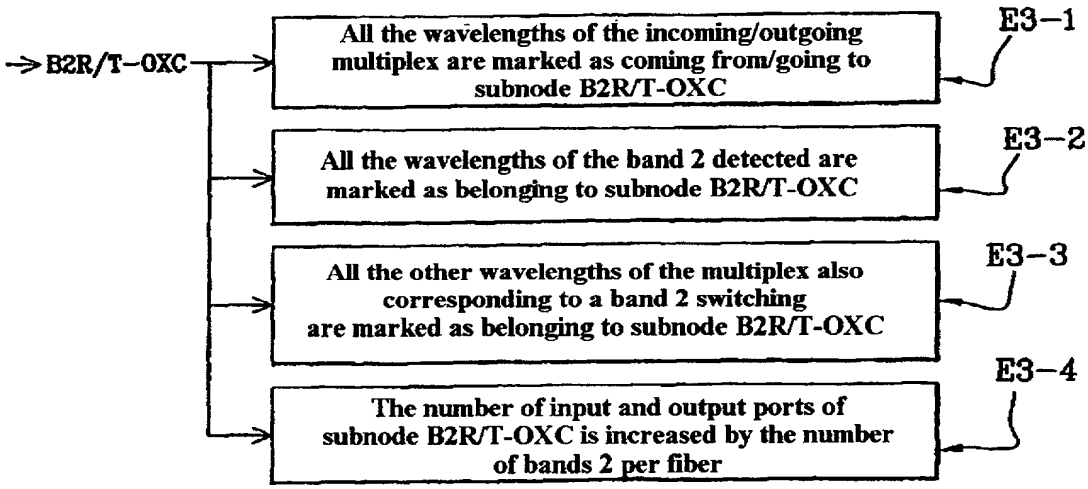
B2R/T-OXC
All the wavelengths of the incoming/outgoing multiplex are marked as coming from/going to subnode B2R/T-OXC
E3-1
All the wavelengths of the band 2 detected are marked as belonging to subnode B2R/T-OXC
E3-2
All the other wavelengths of the multiplex also corresponding to a band 2 switching are marked as belonging to subnode B2R/T-OXC
E3-3
The number of input and output ports of subnode B2R/T-OXC is increased by the number of bands 2 per fiber
E3-4

Fig. 7

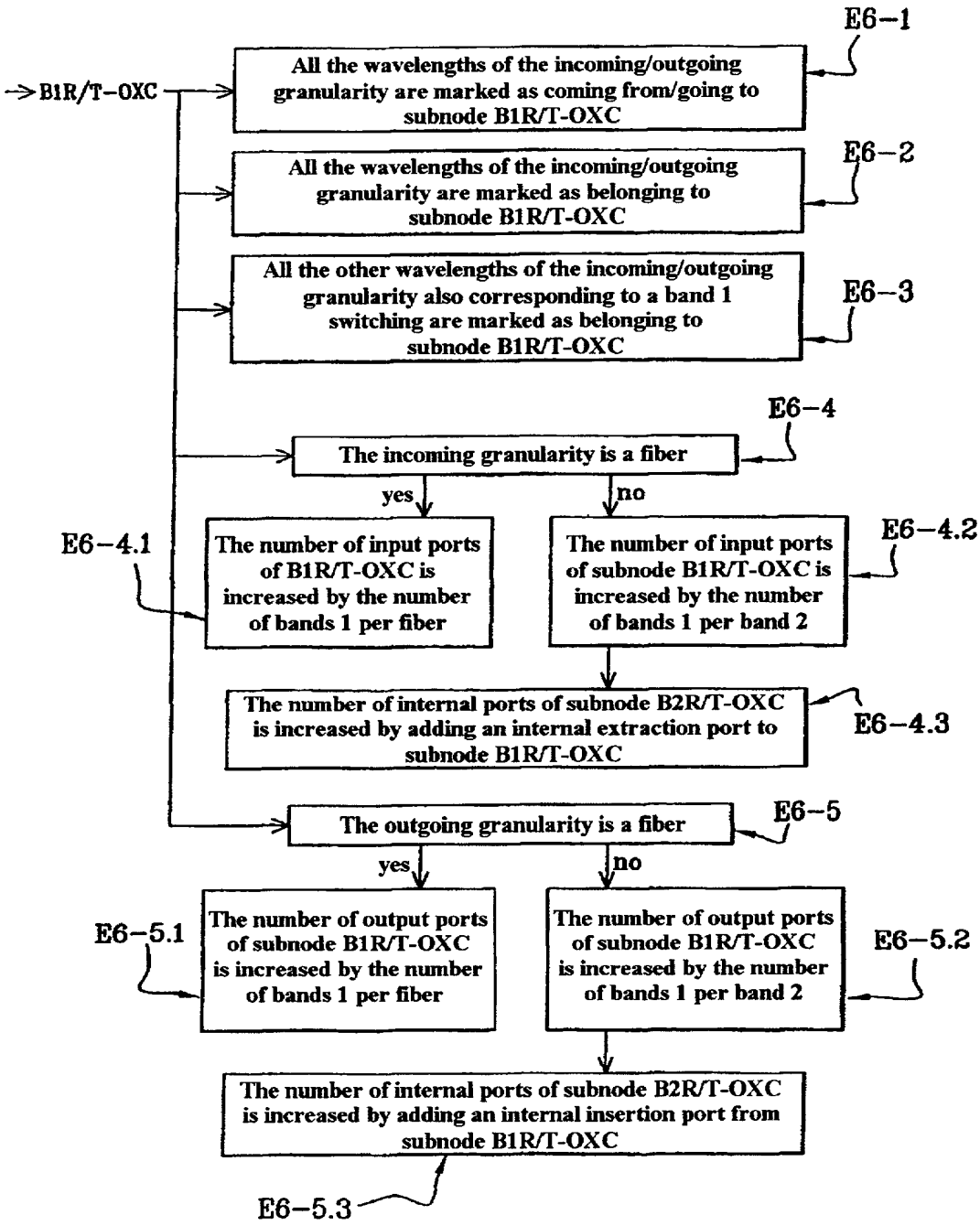
B1R/T-OXC
All the wavelengths of the incoming/outgoing granularity are marked as coming from/going to subnode B1R/T-OXC
E6-1
All the wavelengths of the incoming/outgoing granularity are marked as belonging to subnode B1R/T-OXC
E6-2
All the other wavelengths of the incoming/outgoing granularity also corresponding to a band 1 switching are marked as belonging to subnode B1R/T-OXC
E6-3
The incoming granularity is a fiber
E6-4
yes
no
E6-4.1
The number of input ports of B1R/T-OXC is increased by the number of bands 1 per fiber
The number of input ports of subnode B1R/T-OXC is increased by the number of bands 1 per band 2
E6-4.2
The number of internal ports of subnode B2R/T-OXC is increased by adding an internal extraction port to subnode B1R/T-OXC
E6-4.3
The outgoing granularity is a fiber
E6-5
yes
no
E6-5.1
The number of output ports of subnode B1R/T-OXC is increased by the number of bands 1 per fiber
The number of output ports of subnode B1R/T-OXC is increased by the number of bands 1 per band 2
E6-5.2
The number of internal ports of subnode B2R/T-OXC is increased by adding an internal insertion port from subnode B1R/T-OXC
E6-5.3

Fig. 8

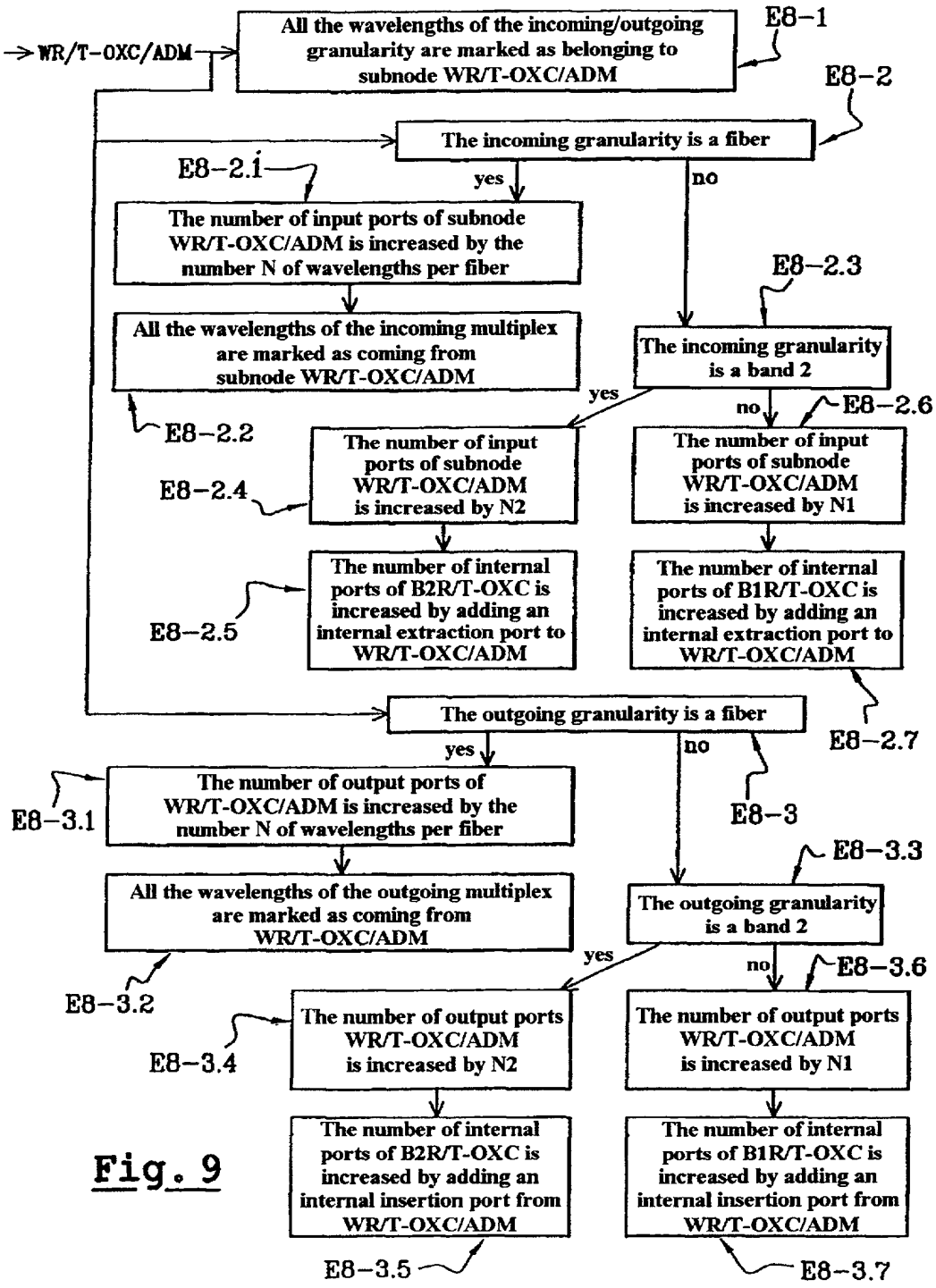
WR/T-OXC/ADM
All the wavelengths of the incoming/outgoing granularity are marked as belonging to subnode WR/T-OXC/ADM
E8-1
E8-2
The incoming granularity is a fiber
yes
no
E8-2.1
The number of input ports of subnode WR/T-OXC/ADM is increased by the number N of wavelengths per fiber
All the wavelengths of the incoming multiplex are marked as coming from subnode WR/T-OXC/ADM
E8-2.2
E8-2.3
The incoming granularity is a band 2
yes
no
E8-2.6
The number of input ports of subnode WR/T-OXC/ADM is increased by N2
E8-2.4
The number of input ports of subnode WR/T-OXC/ADM is increased by N1
The number of internal ports of B2R/T-OXC is increased by adding an internal extraction port to WR/T-OXC/ADM
E8-2.5
The number of internal ports of B1R/T-OXC is increased by adding an internal extraction port to WR/T-OXC/ADM
E8-2.7
The outgoing granularity is a fiber
yes
no
E8-3
E8-3.1
The number of output ports of WR/T-OXC/ADM is increased by the number N of wavelengths per fiber
All the wavelengths of the outgoing multiplex are marked as coming from WR/T-OXC/ADM
E8-3.2
E8-3.3
The outgoing granularity is a band 2
yes
no
E8-3.6
The number of output ports WR/T-OXC/ADM is increased by N2
E8-3.4
The number of output ports WR/T-OXC/ADM is increased by N1
The number of internal ports of B2R/T-OXC is increased by adding an internal insertion port from WR/T-OXC/ADM
E8-3.5
The number of internal ports of B1R/T-OXC is increased by adding an internal insertion port from WR/T-OXC/ADM
E8-3.7

Fig. 9